INTERNAL WORKING DOCUMENT NO.89:01

1988 AERIAL HERBICIDE APPLICATION PROGRAM

Natural Resources and Energy / Ressources naturelles et Energie

TIMBER MANAGEMENT BRANCH
JANUARY ,1989

91-06556/

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OPERATION REVIEW

A total of 15 378 hectares of Crown Land plantations and 8 219 hectares of naturally regenerated cutovers were initially proposed for aerial herbicide treatment by the Licensees in 1988. Inspections of the proposed areas and consultations between Regional staff and the Licensees resulted in a number of revised plans that were re-submitted starting in March, until a final version (TABLE 1) was ratified a week prior to the start of operations, totalling 20 079 hectares (7 452 of which were natural stands). Actual spray area at the completion of operations was 19 870 hectares (7652 natural release) on Crown land plus 25 hectares for the Acadia Forest Exp. Station and the Maritime Forest Ranger School.

Arrangements were made with the Southern New Brunswick Wood Co-operative Ltd. for DNR to treat an additional 340 hectares of private land.

A contact with Trans Maritime Helicopters Ltd. was renewed in 1988 for 4 Bell 206 B Jet Ranger Helicopters at a cost of $28.80 per hectare and two Thrush SR2's were contracted from Cedar Brook Farms Ltd. at a cost of $21.50 per hectare to carry out the aerial application. In addition, three spotter aircraft were contracted; one Bell 47G2 from Trans Maritime Helicopters Ltd. at $110.00 per flying hour plus $395.00 per day and two Hughes 300 C's from Helicraft Ltd. each at $130.00 per flying hour plus $320.00 per day. An agreement was also negotiated with Forest Patrol Ltd. (J. D. Irving) to treat 2 120 hectares at DNR's cost on the Irving License.

A total of 109 020 litres of Vision was purchased for the 1988 program. Keywood Enterprises supplied DNR with 80 270 litres for $17.17 per litre while Monsanto Canada Ltd. supplied 28 750 litres for $17.00 per litre (Monsanto's supply was purchased from funds left over in the 1987 budget).

On July 12, 1988 an application for a spray permit along with detailed maps of the areas requested for treatment were delivered to the Department of Municipal Affairs and Environment. On August 3, 1988 a formal permit was signed by its Minister giving Timber Management Branch the authorization to carry out spray operations (Appendix I).

All necessary mixing equipment, vehicles, trailers, etc. were procured and made ready several days prior to the commencement of the program. A total of 26 casual employees were hired to help carry out the program (Appemdox II).

Prior to the start of operational spraying, maps outlining the spray blocks were sent to Regional DNR headquarters for dispersal to their District offices. These maps were used by District staff to inform the public as to spray locations. Regional staff supplied TMB spray crews with tanker services for mixing as well as experienced local staff who assisted the spray crews in overall logistics.

Spraying commenced on the morning of August 17th. During the next 38 days, DNR spray crews plus JDI were able to treat 19 870 hectares of Crown land and 365 hectares of private woodlots which includes 18 hectares at the Acadia Forest Experimental Station and 7 hectares for the Maritime Forest Ranger School. Also, DNR carried out spray applications for three major research projects. One trial (in conjunction with the Forest Pest Management Institute) was undertaken to determine if efficacy and crop tolerance could be maintained or improved with reduced rates by comparing a micronair spray system with a convential nozzle system on helicopters. The other (in conjunction with Research and Productivity Council of New Brunskwick) was undertaken to determine the degree and causes of off-target herbicide drift from helicopter with conventional spray systems and fixed wing with micronair spray systems. The third trial (in conjunction with CFS Maritimes) has been ongoing for several years and is attemptimg to determine the optimum spray year after planting.

A breakdown of the costs incurred on the programs, area treated, Production rates, rates used, locations, etc. are found in Table 2 and Appendices III, IV and V.

TABLE 1. Chronological sequence of revisions proposed by the Licensee/Regions for the 1988 herbicide Program.

Licensee		#HA Proposed 22/01/88	17/03/88	22/03/88	24/03/88	07/04/88	12/07/88	# HA Actually Treated
Upsalquitch	1	1 668	1 668	1 668	1 668	1 668	1 375	1 636
Nepisiguit	1	1 168	1 168	1 168	1 168	1 168	1 171	1 288
Lower Miramichi	(1)	69	69	69	69	69	69	74
	(2)	390	390	417	417	417	414	312
	Total	459	459	486	486	486	483	386
Upper Miramichi	2	289	289	289	289	289	994	875
Kent	2	37	37	37	37	37	30	55
Queens Charlotte	(2)	720	720	1 548	1 548	1 548	2 110	1 834
	(3)	5 063	5 063	5 063	4 341	4 655	2 341	2 419
	(4)	2 200	3 143	3 143	3 143	3 143	2 950	2 881
	Total	7 983	8 926	9 754	8 553	9 346	7 401	7 134
Fundy	(3)	1 874	1 874	1 874	1 874	1 874	1 471	1 434
	(4)	433	573	573	573	573	528	512
	Total	2 307	2 447	2 447	2 447	2 447	1 999	1 946
York	4	1 838	1 838	1 838	1 838	1 838	2 070	1 524
Carleton	4	1 261	1 261	1 261	1 261	1 261	1 058	1 180
Restigouche Tobique	(1)	952	952	952	952	952	713	713
	(5)	5 635	5 635	5 635	5 635	5 635	2 785	3 115
	Total	6 587	6 587	6 587	6 587	6 587	3 498	3 846
Totals		23 597	24 680	25 535	24 813	25 127	20 079	19 870
Natural Release		(8 219)	(9 214)	(10 029)	(9 307)	(9 621)	(7 452)	(7 652)

Acadia Forest Experimental Station	18
Maritime Forest Ranger School	7
Southern N.B. Wood Co-Operative	340
	365

TABLE 2. Cost analysis of the 1988 herbicide program.

			TOTAL COST ($)	COST/HA ($)
DNR				
17 775[1] ha treated				
	CHEMICAL	Vision (87860 litres)	1 505 920*	84.72
	AIRCRAFT	Sprayers	533 934	30.04
		Spotters	94 838	5.33
			628 772	35.37
	LABOUR	Salaries	80 053	4.51
		Motels	24 285	1.37
		Expenses	22 085	1.24
		Groceries	4 680	.26
			131 103	7.38
	VEHICLES	Rental	48 423	2.72
		Repairs	2 736	.15
		Gas, Oil, etc.	18 752	1.06
		Tires	1 696	.10
			71 607	4.03
	OTHER	Mixing Equipment	4 740	.27
		Safety Equipment	2 267	.13
		Other Supplies	3 776	.21
		Communications	3 633	.20
		Signs & Photo Supplies	4 633	.26
			19 049	1.07
	TOTAL		$2 356 451	$132.57
JDI				
2 120 ha treated				
	CHEMICAL	Vision (10302 litres) (supplied by DNRE)	176 576*	83.29**
	DNRE PAYMENT TO JDI FOR SPRAY COSTS (DNRE cost per hectare less chemical cost is $47.85 x 2 120 ha)		101 442	47.85
	TOTAL		278 018	131.14**
19 895[1] ha treated			$2 634 469	$132.42
	HERBICIDE	Aircraft	325	
	SURVEYS	Salaries	33 805	
		Motels	8 073	
		Expenses	6 650	
		Truck Rental	2 414	
		Gas, oil, etc.	3 928	
	TOTAL		55 195	2.77

1 Includes the 25 hectares sprayed for the Acadia Forest Exp. Station and the Maritime Forest Ranger Schoo but not the S.N.B. Wood Co-op.

	***PERMANENT Salaries	21 535	1.08
	Motels & Expenses	10 224	.51
	Vehicle Mileage	4 206	.21
	TOTAL	35 965	1.80
	TOTAL	$2 725 629	$137.00

* Amount of Vision or Roundup used in the 1988 program.

80 270 L	Vision purchased from 1988 budget @ $17.17/L	1 378 236
28 750 L	Vision purchased from funds left over in 1987 budget A $17.00/L	488 750
1 000 L	Roundup left over from 1987 program @ $18.80/L	18 800
110 020 L	Total inventory	$1 885 786
98 162 L	Total amount used	$1 682 496
11 858 L	Vision inventory left over from 1988 program	$ 203 246

** JDI rates of Vision were lower than DNR's (4.2 instead of 4.36 and 4.9 instead of 5.01), hence a lower chemical per ha cost.

*** Covers salaries of permanent staff during spray period Aug. 14 to Sept. 21).

APPENDIX I

Spray Permit Issued by the
Department of Municipal Affairs and Environment

832 03 0006

MINISTER OF MUNICIPAL AFFAIRS
AND ENVIRONMENT
Province of New Brunswick

MINISTRE DES AFFAIRES MUNICIPALES
ET DE L'ENVIRONNEMENT
Province du Nouveau-Brunswick

P.O. Box/C.P. 6000, Fredericton, N.B., Canada, E3B 5H1 Tel. (506) 453-2558

August 3, 1988

Department of Natural
Resources and Energy
Timber Management Branch
R.R. #10, Regent St
Fredericton, N. B.
E3B 6H6

Dear Sirs:

This will acknowledge receipt of your July 12, 1988 application on behalf of the Department of Natural Resources and Energy.

In accordance with Section 12(1) of the Pesticides Control Act, this Permit No. P84, hereby authorizes the aerial application of pesticides for site preparation and/or conifer release to 19,000 hectares of Crown land plus 400 hectares of private land around the province as outlined in your submission, subject to the following conditions:

1. That only the following pesticide is permitted and must be used according to label instructions:

HERBICIDES	PCP NO
Vision	19,899

2. That additional areas and/or pesticides may be added to your permit only after written approval has been given;

3. That a setback from occupied habitation of 155 m be maintained;

4. That only those areas approved by the Pesticides Advisory Board be treated;

5. That no spraying be conducted within 65 m of bodies of water with the exclusion of intermittent streams which are dry at the time of application;

6. That no spraying be conducted when wind speeds at the treatment area exceed 16 km/hr;

7. That no spraying be conducted 3.2 km upstream from the point of extraction of any municipal surface drinking water supplies;

8. That the areas to be treated are clearly identified for the pilot;

9. That access to the areas being treated be controlled and that signs be posted for the season;

10. That no human flagmen be used;

11. That all personnel involved in the supervision of mixing and loading operations; all personnel involved in the guidance of the aircraft administering the pesticide; and, all personnel applying the pesticide, must hold a valid Class A certificate;

12. That all personnel involved in the mixing and loading of pesticides must wear coveralls, footwear and gloves impermeable to the pesticide, splash shield and a half-faced respirator with NIOSH approved pesticide cartridges;

13. That the Chairman or staff of the Toxic Substances Section be notified a minimum of 48 hours prior to the intended date of the commencement of your program;

14. That cooperation be given to any monitoring personnel or inspector;

15. That the procedure for the disposal of empty pesticide containers be strictly adhered to;

16. That a summary of pesticides used for 1988 be forwarded to the Chairman of the Pesticides Advisory Board no later than December 31, 1988; and,

17. That this permit will expire September 30, 1988.

Yours truly,

VAUGHN BLANEY
Minister

APPENDIX II

TMB Spray Crew Organization

1988 HERBICIDE SPRAY OPERATION

ORGANIZATION

M. K. Barteaux
Director Reforestation and Silviculture

Mack McDonald
Chief of Operations
Supervisor Crew #1
(2 Bell 206-B sprayers and 1 Hughes 300C spotter)

Ground Supervisor - Richard Courier

John Reed
Supervisor Crew #2
(2 Rockwell Thrush sprayers and 1 Hughes 300C spotter

Ground
Supervisor - Danny Crain

Don Carlin
Supervisor Crew #3
(2 Bell 206-B sprayers and 1 Bell 47G2 spotter)

Ground
Supervisor - Chuck Harding

Each ground crew also consisted of a mixer, a loader, two truck drivers and 4 road blockers.

APPENDIX III

Summary of Area Sprayed: Hectares, Herbicide Rate, Volume delivered and percent overlap.

Applicator	Rate of Vision L/ha	Area ha	Spray Volume L/ha	Total Volume Delivered (L)	Overlap %	Total Vision Used L
DNR	4.36	14 271	37.4	592 459	11.0	69 067
	5.01	3 361	37.4	137 520	9.4	18 122
	*F.P.M.I. Study	143	37.4	7 149	33.7	322
DNR TOTAL	**	17 775		737 128	10.9	87 811
FPL	4.20	844	37	31 389	0.5	3 563
	4.90	1 276	37	50 876	7.8	6 738
FPL TOTAL		2 120		82 265	4.9	10 301
TOTAL		19 895		819 393		98 112

* Four different rates were used for this study.
- 0.25, 0.50, 0.75 and 1.00 kg ai/hectare.

** Includes 25 ha sprayed for the Maritime Forest Ranger School and the Acadia Forest Experimental Station.

APPENDIX IV

Spray Production of DNR Crews

	*Crew #1 Jet Rangers	Crew #2 Thrushes	Crew #3 Jet Rangers	Total
Total # ha treated	5 141	6 709	5 782	17 632
Total # L delivered	228 675	281 206	220 044	729 979
# chemical ha. (# L delivered - 37.4)	6 114	7 519	5 883	19 516
Total number of spray hours	71.22	143.23	85.50	299.95
# ha treated per spray hour	72.2	46.9	67.6	186.7
# L delivered per spray hour	3 211	1 963	2 574	7 748
# chemical ha per spray hour	85.8	52.5	68.8	207.1

* Does not include the 143 ha done during the F.P.M.I. study.

APPENDIX V

Summary of Individual Blocks Sprayed in Hectares, by Licensee

1988 HERBICIDE PROGRAM

LICENSEE: Upsalquitch REGION: 1

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)
1-1-4914	Lwr. McNair Bk.	0348 (n)	103	101	5.01	3 254	8/17 am	TMH (2) .80
"	"	0026 (n)	61	55	5.01	2 268	8/17 am	" .45
"	"	0027 (n)	104	106	5.01	4 536	8/17 am	" 1.20
1-1-4814	Blue Mtn.	0024	78	69	4.36	1 890	8/17 am,pm	" .83
					5.01	756		
1-1-4914	Lwr. McNair Bk.	0309 (n)	30	35	4.36	1 134	8/17 pm	" .48
1-1-4813	S. Br. Benjamin R.	0022	133	151	4.36	5 670	8/17 pm,8/19 am	" 1.68
1-1-4414	Reids Gulch	0715	49	54	4.36	2 269	8/19 pm,8/20 am	" 1.00
1-1-4314	Rocky Rapids Gulch	0716	50	53	4.36	2 268	8/20 am	" .63
1-1-4414	Reids Gulch	0718	107	143	4.36	5 746	8/20 am,8/20 pm	" 2.25
1-1-4514	Popelogan R.	0037	38	45	4.36	1 314	8/20 pm	" .57
1-1-4715	Middle Bk.	1045	2	2	4.36	378	8/20 pm	" 1.27
1-1-4413	Berry Bk.	0704	119	131	4.36	5 634	8/20 pm,8/21 am	" 2.90
"	"	0703	25	25	4.36	1 702	8/21 am	" .77
1-1-4512	Choulnard Bk. **	0909 (n)	103	49	4.36	3 745	8/21 am	" 1.70
"	"	0019	86	104	4.36	4 122	8/21 am	" 1.43
1-1-4817	Tetagouche R.	0124	26	26	4.36	1 036	8/27 am,8/28 am	CBF .87
"	"	0116	19	23	4.36	988	8/28 am	" .87
1-1-4618	McCormack Bk.	0559	44	20	4.36	756	8/30 pm	" .37
1-1-4617	N. Br. Meadow Bk.	0500	27	27	4.36	960	8/31 am,pm	" .72
1-1-4717	England Bk.	0085	21	27	4.36	1 309	8/31 am,pm	" .75
"	"	0086	90	109	4.36	4 757	8/31 pm,9/01 am	" 2.13
1-1-4719	Cook Savoie	0535	36	44	4.36	2 083	9/01 am	" 1.23
1-1-4518	NE of McCormack Lk.	0502	2	2	4.36	151	9/01 am	" .13
1-1-6513	*	0572	55	55	4.36	2 042	8/27 am	" .97
1-1-4419	*	1066	24	24	4.36	908	8/27 am,pm	" .58
1-1-4814	*	0525	33	33	4.36	1 248	8/27 pm	" .62
1-1-6413	*	0515	20	20	4.36	756	8/27 pm	" .50
1-1-4515	*	1077	20	20	4.36	756	8/28 am	" .57
1-1-4514	*	1079	26	26	4.36	983	8/28 am	" .89
1-1-4515	*	1109	20	20	4.36	756	8/28 am	" .87
1-1-4514	*	1063	5	5	4.36	189	8/28 am	" .22
1-1-4615	*	1113	16	16	4.36	606	8/28 am,8/30 am	" .73
1-1-4512	*	0418	6	6	4.36	246	8/28 am	" .22
1-1-4718	*	1068	10	10	4.36	378	8/30 am	" .45
TOTAL			1 588	1 636	4.36	56 780		TMH (2) 17.96
			401 (n)	346 (n)	5.01	10 814		CBF 13.69

* Retreatment of past years "striped" areas.
** (n) stands for natural release areas..

1988 HERBICIDE PROGRAM

LICENSEE: Nepisiguit REGION: 1

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)
1-2-4818	S. Tetagouche R.	0067	34	30	4.36	1 512	8/27 am, 8/28 am	CBF 1.07
1-2-4819	Peters Bk.	9688	66	66	"	3 785	8/27 am, 8/28 am, 8/30 am	" 2.35
"	"	9687	73	82	"	3 785	8/27 am, 8/28 am, 8/30 am	" 2.37
1-2-4420	Moose Bk.	0252	64	59	"	2 866	8/27 am	" 1.28
1-2-4421	Upp. E. Br. Moose Bk.	0258	23	31	"	1 471	8/27 am	" .70
1-2-4820	W. Br. Forty-four Mile Bk.	9628 (n)	139	146	"	6 294	8/30 am, 8/31 am	" 2.25
1-2-4520	First Portage Lk.	0223 (n)	117	117	"	4 536	8/30 pm	" 1.67
1-2-4919	Anaconda Mines	0305	2	2	"	189	8/31 am	" .22
"	"	0059	65	65	"	3 024	8/31 am, 9/01 am	" 1.82
1-2-5219	Little R.	9660	56	44	"	1 767	9/01 am	" .79
1-2-5018	Luckly Lk.	0068	44	68	"	2 762	9/02 am, 9/03 am	" 1.72
"	"	0046	47	63	"	2 831	9/02 am, 9/03 am	" 2.15
"	"	9659	51	58	"	2 671	9/03 am	" 1.40
1-2-5118	N. Br. Middle R.	0237	55	55	"	2 407	9/03 am	" 1.77
1-2-5119	S. Br. Middle R.	0245	12	17	"	1 218	9/03 am	" 1.05
1-2-4921	S. Br. Forty Mile Bk.	0026	4	4	"	216	9/03 am	" .24
1-2-5021	Canoe Landing Lk.	0031	87	87	"	3 444	9/03 am, 9/04 am	" 2.37
1-2-5321	Bathurst Mines	9526	42	47	"	1 930	9/03 pm	" 1.00
1-2-5220	Lit. S. Br. Pabineau R.	0242	18	20	"	984	9/03 pm	" .60
1-2-5120	Nine Mile Bk.	0266	85	118	"	4 526	9/04 am	" 1.85
"	"	0038	12	14	"	557	9/04 am	" .42
1-2-5218	Middle R.	0015	27	28	"	1 461	9/04 am	" .87
1-2-5121	S. Nine Mile Bk.	0035	45	45	"	1 559	9/04 am	" 1.07
	"	T.P.	3	3	"	189	9/06 am	" .30
1-2-4919		* 0295	9	9	"	322	8/31 am	" .28
1-2-4420		* 0004	5	5	"	201	8/27 am	" .15
1-2-5219		* 9638	5	5	"	201	9/01 pm	" .14
TOTAL			1 190 256 (n)	1 288 263 (n)	4.36	56 708		CBF 31.90

* Retreatment of past years "striped" areas.

1988 HERBICIDE PROGRAM

LICENSEE: Lower Miramichi REGIONS: 1,2

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
1-3-5723	Tabu Airstrip	0198	69	74	4.36	3 025	9/06 am	CBF	1.07
2-3-5673	Meadow Bk.	0016	20	23	4.36	1 362	8/22 pm	TMH (2)	.72
2-3-5533	Semiwagon R.	0022	18	18	"	832	8/22 pm	"	.50
2-3-5340	Cold Bk.	0130	26	15	"	681	8/30 pm	"	.78
2-3-5126	Stony Bk.	0179	40	38	"	1 797	9/06 pm, 9/09 pm	CBF	.70
2-3-5027	Peabody Lk. Bk.	0320	65	65	"	2 658	9/08 am	"	1.13
"	"	0385	27	27	"	1 123	9/08 am	"	.60
2-3-5026	Sevogle Airstrip	0025	48	52	"	2 224	9/08 pm	"	.62
2-3-5126	Stony Bk.	0180	6	6	"	318	9/08 pm	"	.17
2-3-5227	Sevogle R.	0026	59	68	"	2 650	9/10 pm	"	1.28
Region 2 Total			309	312	4.36	13 645		TMH (2)	2.00
								CBF	4.50
TOTAL			378	386	4.36	16 670		TMH (2)	2.00
								CBF	5.60

1988 HERBICIDE PROGRAM

LICENSEE: Upper Miramichi REGION: 2

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
2-4-4827	Big Sevogle R.	0017	320	320	4.36	12 855	9/09 am,9/10 am	CBF	5.49
2-4-4925	Bear Lk. Bk.	0577	15	33	"	1 210	9/09 pm	"	.47
2-4-4827	Big Sevogle R.	0021	225	287	"	12 592	9/10 am,9/12 pm	"	4.98
"	"	0023	112	108	"	4 542	9/15 am	"	1.50
2-4-4828	Bayles Lk.	* 0116	14.8	14.8	"	568	9/10 am	"	.62
"	"	* 0100	17.5	17.5	"	564	9/10 am	"	.38
"	"	* 0245	13.8	13.8	"	794	9/10 am	"	.57
2-4-4727	"	* 0253	50.0	50.0	"	2 911	9/10 am,pm	"	2.05
"	"	* 0022	19.0	19.0	"	1 400	9/10 pm,9/12 pm	"	1.00
2-4-4827	"	* 0017			"	114	9/12 pm	"	.08
"	"	* 0018	12.4	12.4	"	303	9/12 pm	"	.29
TOTAL			799.5	875.5	4.36	37 853		CBF	17.43

* only the burnt slash piles were treated.

1988 HERBICIDE PROGRAM

LICENSEE: Kent REGION: 2

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
2-5-6133	Black R.	0002	10	22	4.36	1 664	8/23 am	TMH (2)	2.27
2-5-5935	Vautour	0027	5	8	"	416	8/23 am	"	.50
2-5-5938	Kent Junction	0218	15	25	"	416	8/23 am	"	.50
TOTAL			30	55	4.36	2 496		TMH (2)	3.27

1988 HERBICIDE PROGRAM

LICENSEE: Queens Charlotte REGIONS: 2,3,4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
2-6-4940	Bettsburg	9979	116	120	4.36	5 904	8/30 pm	TMH (2)	2.00
2-6-4843	Cains R.	3483 (n)	65	58	"	1 626	8/31 am	"	.72
2-6-4842	Burntland Bk.	1826 (n)	42	44	"	1 664	8/31 am	"	.83
"	"	0316	129	160	"	7 791	8/31 am,pm	"	2.20
2-6-4636	Little Dungarvan R.	3482 (n)	257	257	"	10 378	9/01 am,pm	"	3.47
2-6-4937	Big Hole Lk.	3485 (n)	374	340	"	12 552	9/02 am,pm, 9/03 pm, 9/04 am	"	8.00
2-6-5043	E. Br. Gordon Bk.	1712 (n)	116	172	"	5 670	9/07 am,pm	"	1.25
2-6-5142	Blue Rock Bk.	1714 (n)	35	130	"	3 402	9/07 am, 9/08 am,pm	"	1.70
2-6-5043	E. Br. Gordon Bk.	1717 (n)	247	244	"	6 237	9/08 pm, 9/09 am, 9/10 am	"	1.73
2-6-5142	Mountain Bk.	1711 (n)	245	205	"	5 103	9/09 am, 9/10 am	"	1.85
2-6-5141	Grand Lk. Road	2959 (n)	97	104	"	3 780	9/10 pm	"	.77
Region 2 Total			1 723 1 478 (n)	1 834 1 554 (n)	4.36	64 107		TMH (2)	24.52
3-6-5043	E. Br. Gordon Bk.	1713 (n)	128	128	4.36	3 805	8/23 pm, 8/24 am	TMH (2)	.93
"	"	1355 (n)	40	60	"	1 778	8/23 pm, 8/24 am	"	.75
3-6-5044	Longen Bk.	1668 (n)	172	187	"	5 938	8/23 pm, 8/24 am	"	2.30
3-6-4944	McKinley Bk.	1680 (n)	95	95	"	2 496	8/24 am	"	1.07
3-6-5143	Gaspereau R.	4495 (n)	32	34	"	1 248	8/24 am	"	.58
"	"	4494 (n)	58	57	"	2 080	8/24 am	"	.87
3-6-4943	W. Br. Gordon Bk.	1357 (n)	61	63	"	1 664	8/24 am,pm	"	.47
"	"	0904	57	70	"	3 328	8/24 pm	"	1.50
3-6-5242	McAllister Bk.	4493	145	137	"	5 087	8/27 am,pm	"	1.67
3-6-5143	Gasperau R.	4492	75	74	"	2 704	8/27 am	"	1.63
3-6-5341	Meadow Bk.	1657	26	50	"	1 891	8/27 pm, 8/28 am	"	1.65
"	"	1666	45	61	"	3 555	8/28 am	"	1.78
3-6-5442	Trout Bk. Lk.	0510 (n)	140	20	4.20	662	9/11 am, 9/15 am, 9/16 am	JDI	N/A
				100	4.90	3 255			
3-6-5441	McLeod Bk.	0568	12	12	4.20	530	9/11 am	"	"
3-6-5540	Big Forks Str.	1831 (n)	63	63	4.90	2 271	9/12 am, 9/16 am	"	"
3-6-5541	"	0566	82	82	4.20	3 028	9/09 am	"	"
3-6-5641	Little Forks Str.	0102	72	88	"	3 123	9/09 am, 9/11 am, 9/12 am	"	"

1988 HERBICIDE PROGRAM

LICENSEE: Queens Charlotte (Con't) REGIONS: 2,3,4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
3-6-5740	Trout Bk. Airstrip	44S7	60	60	4.20	2 195	9/09 am,9/11 am,9/12 am	"	"
3-6-5741	E Br Little Forks Str	4498	29	32	4.20	1 173	9/09 am	"	"
3-6-5643	Coy Bk.	1437	60	51	4.20	2 271	9/15 am,9/16 am	"	"
				9	4.90	379			
"	"	1692 (n)	234	234	4.90	7 608	9/12 am,9/14 pm,9/15 am,9/16 am	"	"
3-6-5744	E. Br. Coy Bk.	0124	77	77	4.90	3 785	9/15 am,9/16 am	"	"
3-6-5743	Lake St.	4490 (n)	67	67	4.90	3 122	9/15 am,9/16 am	"	"
"	"	4491	36	27	4.20	1 136	9/11 am,9/12 am	"	"
				9	4.90	378			
3-6-5742	Spring Bk.	0107	20	20	4.20	662	9/15 am	"	"
3-6-5841	Hazen Jam	9988 (n)	135	132	"	4 391	9/11 am,9/12 am	"	"
"	"	0104	126	126	"	4 864	9/09 am,9/12 am,9/15 am	"	"
3-6-5545	Black Water Bk.	0027	146	146	"	5 679	9/09 am,9/11 am	"	"
"	"	1327	48	48	"	1 675	9/12 am,9/15 am	"	"
Region 3 Total			2 341	1 016	4.36	35 574		TMH (2)	15.20
			1 225 (n)	844	4.20	31 389		JDI	N/A
				559	4.90	20 798			
				2 419		87 761			
				1 240 (n)					
4-6-4557	Blissville	9062 (n)	90	90	5.01	4 160	9/01 am	TMH (1)	1.68
"	"	9064 (n)	111	111	"	4 046	9/01 am	"	2.12
"	"	9063 (n)	168	189	"	7 858	9/01 pm,9/02 am,9/10 pm,9/11 pm	"	1.15
4-6-4460	Perley Bk.	9056 (n)	26	32	5.01	1 531	9/12 am	"	.42
"	"	8827B	54	56	4.36	2 590	9/12 am	"	.50
"	"	8827A	178	84	4.36	2 968	9/12 am,9/14 am	"	1.00
				48	5.01	1 701			
"	"	9520B	39	4	4.36	200	9/12 pm	"	.47
				36	5.01	1 400			
"	"	9520A(n)	12	12	4.36	417	9/12 pm	"	.15
"	"	9519	16	10	4.36	378	9/12 pm	"	.35
				6	5.01	208			
4-6-4562	West Long Lk.	0163	59	66	4.36	3 461	9/12 pm,9/14 am	"	.80
"	"	0164 (n)	93	67	4.36	3 517	9/14 am,9/15 pm	"	1.48
				40	5.01	2 080			

1988 HERBICIDE PROGRAM

LICENSEE: Queens Charlotte (Con't) REGIONS: 2,3,4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
"	"	9543	57	40	5.01	1 872	9/15 pm	"	.40
"	"	0344 (n)	59	10	4.36	416	9/15 pm, 9/16 am	"	.62
				52	5.01	2 288			
"	"	9958A(n)	35	35	4.36	1 456	9/16 am	"	.32
"	"	0025	18	15	4.36	624	9/16 am	"	.27
				4	5.01	151			
"	"	0167 (n)	23	25	5.01	1 248	9/16 am	"	.35
"	"	9513	18	15	"	832	9/16 am	"	.30
"	"	0170 (n)	29	29	"	1 664	9/16 am	"	.43
"	"	9958C	27	27	"	1 040	9/16 am,pm	"	.42
4-6-4462	Rocky Lk.	0154 (n)	91	91	"	2 874	9/16 pm	"	.67
4-6-4562	West Long Lk.	9963 (n)	70	114	"	4 368	9/16 pm, 9/17 am	"	1.12
4-6-4462	Rock Lk.	0031 (n)	206	211	"	9 568	9/17 am	"	2.08
4-6-4663	Mahood Lk.	9539	19	19	"	1 040	9/17 am	"	.28
"	"	9521	53	57	"	2 912	9/17 am	"	.67
"	"	9053 (n)	170	229	"	6 768	9/17 pm	"	1.88
4-6-4564	Tamarack Bk.	0144 (n)	85	95	"	3 744	9/19 pm	"	.80
"	"	0029 (n)	25	24	"	832	9/19 pm	"	.25
4-6-4464	Lake Anthony	9061 (n)	128	137	"	5 408	9/19 pm	"	1.33
4-6-4463	McDougall Lk.	0547 (n)	59	71	"	3 555	9/19 pm	"	.85
4-6-4160	Big Kedron Lk.	9538	107	114	4.36	5 742	9/17 am	CBF	2.40
4-6-4261	Kedron Str.	9518	33	35	"	1 404	9/17 pm	"	.93
"	"	8828A	94	88	"	4 232	9/17 pm	"	1.52
"	"	8828B	167	179	"	6 993	9/17 pm	"	2.83
4-6-4160	Big Kedron Lk.	9054 (n)	46	49	"	1 828	9/17 pm	"	.75
"	"	9055 (n)	169	183	"	7 872	9/18 am, 9/19 am	"	2.80
4-6-4262	Pleasant Ridge	0006 (n)	76	82	"	3 103	9/19 pm	"	1.80
Region 4 total			2710	1078	4.36	46 784		TMH(1)	23.16
			1771(n)	1803	5.01	73 565		CBF	13.03
				2881		120 349			
				1978 (n)					
TOTAL			6774	844	4.20	31 389		TMH(1)	23.16
			4474(n)	3928	4.36	146 465		TMH(2)	39.72
				559	4.90	20 798		CBF	13.03
				1803	5.01	73 565		JDI	N/A
				7134		272 217			
				4772 (n)					

1988 HERBICIDE PROGRAM

LICENSEE: Fundy REGIONS: 3,4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
3-7-6155	West of Teahan's Cor.	0214	97	97	4.36	4 158	9/15 pm, 9/16 am	TMH(2)	1.35
"	"	0114	155	161	"	5 859	9/16 am	"	2.48
3-7-5956	N.E. Pt. Wolfe R.	0115	70	77	"	3 213	9/16 am	"	.50
3-7-6057	Dustin Bk.	0010	140	186	"	6 993	9/16 am	"	2.47
3-7-5759	Pine Lk	0647	139	139	"	6 426	9/17 pm	"	1.50
3-7-6155	West of Teahan's Cor.	0113	54	57	"	2 079	9/17 am	"	1.07
3-7-5546	Coal Ck.	9960 (n)	154	154	4.90	6 389	9/01 am, 9/02 am, 9/03 pm, 9/04 am, 9/07 am	JDI	N/A
"	"	9961 (n)	344	344	"	14 236	8/31 pm, 9/01 am, 9/02 pm, 9/03pm, 9/04am, 9/07am, pm	"	"
3-7-5646	Forks Str.	9958 (n)	101	101	"	5 016	8/31 pm, 9/01 am, 9/02 pm, 9/03 am	"	"
"	"	9959 (n)	53	53	"	2 127	8/31, 9/01 am	"	"
3-7-5550	Miller Bk.	0122	65	65	"	2 310	9/04 am, 9/07 am	"	"
Region 3 Total			1372	717	4.36	28 728		TMH(2)	9.37
			652(n)	717	4.90	30 078			
				1434		58 806			
				652 (n)					
4-7-4764	Munson Lk.	9058 (n)	95	99	5.01	4 178	9/17 am, pm	TMH(1)	1.08
4-7-4643	McGivney	8711 (n)	250	270	"	12 852	9/11 am, 9/12 am, pm, 9/14 am	TMH(2)	4.65
4-7-4644	Glencoe	8710 (n)	150	110	"	4 461	9/14 am, pm, 9/15 am	"	1.12
4-7-4745	Zionville	9997	33	33	"	1 512	9/15 am	"	.85
Region 4 Total			528	512	5.01	23 003		"	7.70
			479(n)	479 (n)					
Total			1900	717	4.36	28 728		TMH(1)	1.08
			1147(n)	717	4.90	30 078		TMH(2)	15.99
				512	5.01	23 003			17.07
				1946		81809			
				1131 (n)					

1988 HERBICIDE PROGRAM

LICENSEE: York REGION: 4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
4-8-4346	Big Bk.	1006	275	113	4.36	5 201	8/30 pm	TMH(1)	2.60
				162	5.01	7 485			
4-8-4246	"	0064	141	60	4.36	2 778	8/30 pm, 8/31 am	"	1.32
				44	5.01	2 042			
4-8-4244	Lower Lk.	0062	92	94	4.36	4 084	8/31 am	"	1.75
"	"	0061	46	88	"	2 496	8/31 am	"	.72
4-8-4353	Smith field	0180	72	74	"	3 024	8/31 pm	"	.90
4-8-4244	Lower Lk.	1003	97	105	"	4 207	9/02 pm, 9/03 pm	"	1.43
"	"	0107(FPMI)	162	45	100 L vision	2 156	9/04 am	"	2.28
4-8-4546	N. Br Dunbar Str.	0231 (n)	62	71	4.36	2 268	9/20 pm	TMH(2)	.83
4-8-4548	Herlett	1004	25	21	"	756	9/20 pm	"	.50
4-8-4258	Oromocto Lk.	1146	231	107	"	5 563	9/16 am	CBF	1.77
"	"	1175	195	112	"	4 397	9/16 am, pm 9/17 am	"	2.15
4-8-4259	Little Kedron Lk.	1177	43	44	"	2 422	9/16 pm, 9/17 am	"	1.18
4-8-4258	Oromocto Lk.	1149	82	87	"	3 750	9/17 am	"	1.25
4-8-4159	Big Kedron Lk.	1014	57	44	"	1 968	9/17 am	"	.70
"	"	1154	183	79	"	3 924	9/17 am	"	1.45
4-8-4545	Red Rock	0111	132	130	"	4 536	9/20 pm	TMH (2)	.85
"	"	0067	44	44	"	1 890	9/20 pm	"	.38
	TOTAL		1 939	1 273	4.36	53 246		TMH (1)	11.00
			62 (n)	206	5.01	9 527		TMH (2)	2.56
				45	100 l Vision	2 156		CBF	8.50
				1 524		64 947			22.06
				71 (n)					
Others	U.N.B. Woodlot	M.F.R.S.	7	7	4.36	378	8/31 pm	TMH (1)	.33
	Acadia Exp. St.	CFS (1,3)	18	18	5.01	1 032	9/23 am	TMH (1)	.34

1988 HERBICIDE PROGRAM

LICENSEE: Carleton REGION: 4

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
4-9-3736	Craig Bk.	0003	55	58	4.36	1 946	8/24 am	TMH (1)	.80
"	"	0004	51	47	"	2 702	8/24 am	"	1.12
4-9-3837	Blowdown Bk.	0266	68	98	"	3 552	8/24 am	"	.93
"	"	0265	217	206	"	10 107	8/24 am, 8/27 am	"	2.83
4-9-4040	Governor's Bk.	0055	92	115	"	4 893	8/27 pm	"	1.18
"	"	0054	57	73	"	3 495	8/27 pm	"	.83
4-9-3938	Welch Siding	0179	30	48	"	2 313	8/27 pm	"	.95
4-9-3944	Becoguimec Str.	0238	140	33	"	1 776	8/28 am	"	2.23
				128	5.01	5 233			
"	"	0236	18	15	"	699	8/28 am	"	.23
4-9-4041	W. Br. Napadogan Bk.	0042	40	46	4.36	2 722	9/07 am	"	.39
"	"	0056(FPMI)	51	44	93 1 Vision	2 181	9/08 am	"	2.55
4-9-4542	McMillan Bk.	0024	70	110	4.36	5 255	9/19 pm, 9/20 am	TMH (2)	.88
"	"	0036	60	84	"	2 646	9/20 am	"	1.20
4-9-4342	Williamsburg	0059	23	25	"	1 134	9/20 am	"	.62
"	"	9008	52	65	"	1 512	9/20 am	"	.80
"	"	0023	16	18	"	756	9/20 am	"	.50
TOTAL			1 040	1 026	4.36	44 809		TMH (1)	14.04
				110	5.01	5 932		TMH (2)	4.00
				44	93 1 Vision	2 181			
				1 180		52 922			

1988 HERBICIDE PROGRAM

LICENSEE: Restigouche-Tobique REGIONS: 1, 5

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
1-10-3616	Falls Bk.	384	28	28	4.36	1 530	8/31 am	TMH (1)	.58
1-10-3517	Five Mile Bk.	371	16	16	"	850	8/31 am	"	.53
1-10-4809	Pollard Bk.	110	29	29	"	2 828	8/19 am	CBF	1.47
1-10-3512	Six Mile Bk.	120 (n)	140	144	"	5 678	8/19 am, 8/20 am	"	3.00
"	"	341	57	57	"	2 052	8/19 am	"	1.13
"	"	343	42	52	"	1 552	8/19 am, 8/20 pm	"	1.13
"	"	342	32	36	"	1 512	8/20 am	"	1.18
1-10-3413	McDougall Bk.	114 (n)	76	76	"	2 268	8/20 am	"	1.08
"	"	126 (n)	140	140	"	5 349	8/20 am, 8/21 am	"	2.48
1-10-3514	Whalen Gulch	361	27	27	"	1 035	8/21 am	"	.88
"	"	364	36	36	"	1 512	8/21 am	"	.97
"	"	368	16	16	"	477	8/21 am	"	.38
"	"	135, 136, 137	21	21	"	643	8/24 pm	"	.70
1-10-3214		4751	53	53	"	2 043	8/24 pm	"	1.30
Region 1 total			713	731	4.36	29 329		TMH (1)	1.11
			356 (n)	360 (n)				CBF	15.70
									16.81
5-10-4225	McKeen Bk.	512	64	64	4.36	3 742	8/17 am	TMH (1)	2.05
"	"	502	165	165	"	8 084	8/17 am	"	2.67
5-10-4424	Mt. Edward	519	82	82	"	4 250	8/18 pm, 8/19 am	"	.75
"	"	517	114	114	"	4 760	8/19 am	"	1.20
"	"	521	4	4	"	170	8/19 am	"	.08
5-10-4119	Pat Bk.	267	16	31	"	2 116	8/20 am	"	1.50
5-10-3920	Big Cedar Bk.	373	27	27	"	1 360	8/20 am	"	.53
5-10-3921	Little Cedar Bk.	394	8	8	4.36	340	8/20 am	TMH (1)	.17
5-10-4021	Beaver Bk.	393	23	23	"	1 435	8/20 am	"	.57
5-10-3921	Little Cedar Bk.	363	5	5	"	150	8/20 am	"	.12
5-10-3718	Five Fingers Bk.	266	20	20	"	1 020	8/20 pm	"	.45
5-10-3617	Eight Mile Bk.	362	25	25	"	1 260	8/20 pm	"	.67
5-10-3517	Five Mile Bk.	374	23	23	"	1 190	8/21 am	"	.55
5-10-3618	Jardine Bk.	335	22	22	"	1 090	8/21 am	"	.80
5-10-3216	N. Br. Bounamitz	264	53	67	"	3 060	8/21 am	"	.82
5-10-3217	Four Mile Bk.	391	47	47	"	2 720	8/21 pm	"	.73
"	"	265	43	43	"	2 040	8/22 am	"	.53
5-10-3117	Caribou Bk.	357	15	15	"	831	8/22 am	"	.30
5-10-3016	Nine Mile Bk.	329	40	40	"	1 738	8/22 am	"	.37
"	"	330	33	33	"	1 436	8/22 am	"	.40
5-10-2817	Green River	377	37	37	"	1 776	8/22 am	"	1.00

LICENSEE: Restigouche-Tobique (cont.)

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (ha)	
5-10-3121	McCoy Bk.	389	18	18	"	850	8/22 pm	"	.38
"	"	352	13	13	"	623	8/22 pm, 8/23 am	"	.26
"	"	383	20	20	"	907	8/23 am	"	.33
"	"	398	10	10	"	680	8/23 am	"	.28
5-10-3122	Montagne-de-la-Croix	395	10	14	"	510	8/23 am	"	.18
5-10-3021	Thibeau Bk.	358	7	7	"	340	8/23 am	"	.15
5-10-3020	Big Bk.	296	5	18	"	1 020	8/23 am	"	.47
"	"	297		10	"			"	
"	"	354	6	6	"	340	8/23 am	"	.23
5-10-3019	Burnt Camp Bk.	304	5	5	"	340	8/23 am	"	.30
5-10-3120	Lake Bk.	349	33	33	"	1 360	8/23 am	"	.45
"	"	350	14	14	"	680	8/23 am	"	.42
5-10-3120	Lake Brook	369	37	37	436	1 360	8/23 am	TMH (1)	.58
"	"	351	11	11	"	680	8/23 am	"	.35
"	"	270	67	71	"	3 060	8/23 am	"	1.25
"	"	367	25	25	"	1 020	8/23 am	"	.57
5-10-3122	Montagne-de-la-Croix	392	41	41	"	2 439	9/08 pm	"	.83
5-10-3121	McCoy Bk.	386(FPMI)	41	22	57L vision	1 256	9/09 am	"	2.17
5-10-3210	McDonald Gulch	366,390,396 (FPMI)	52	32	72L vision	1 556	9/10 am	"	1.85
5-10-3411	States Lk.	123(n)	100	10	4.36	416	8/17 am, 8/18 am	CBF	1.28
				74	5.01	3 063			
"	"	122(n)	257	257	5.01	10 584	8/17 am, 8/18 am	"	2.58
"	"	382	22	22	4.36	1 097	8/18 am	"	.78
5-10-3113	W. Br. Union Bk.	345	54	45	"	1 512	8/18 pm	"	.70
"	"	340	43	52	"	2 268	8/18 pm, 8/21 pm	"	.92
5-10-3511	East of Rock Bk.	338	35	35	"	1 512	8/19 am, 8/21 am	"	1.10
"	"	337	87	87	"	3 024	8/19 am, 8/21 am	"	1.40
5-10-3112	Eighteen Mile Gulch	261	13	43	"	1 514	8/19 pm, 8/20 pm	"	1.03
"	"	**397	23	43	"	1 512	8/19 pm, 8/21 pm	"	.60
"	"	**127 (n)	78	98	"	3780	8/19 pm, 8/20 pm, 8/21 pm	"	2.08
5-10-2912	McDonald Bk	319	126	141	"	5 107	8/21 am, 8/22 am	"	2.60
"	"	318	15	15	"	555	8/21 am, 8/22 am	"	.50
"	"	320	80	83	"	2 654	8/22 am	"	1.65
5-10-2813	Poplar Bk.	376	63	63	"	2 968	8/22 am, 8/23 am	"	2.02
5-10-3212	Old Shanty Bk.	116 (n)	120	105	"	3 780	8/22 pm, 8/23 pm	"	1.73
5-10-3211	Kedgwick Forks	370	25	25	"	1 512	8/22 pm, 8/23 pm	"	.65
5-10-2813	Poplar Bk.	315	29	49	"	1 468	8/23 am	"	1.00
"	"	317	14	14	"	593	8/23 am	"	.55
5-10-2913	Summit Depot	324	24	29	"	1 141	8/23 am	"	1.53

**Parts of these blocks sprayed twice due to rain showers after 1st application

LICENSEE: Restigouche-Tobique (Con't)

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
5-10-2913	Summit Depot	326	36	41	436	1 810	8/23 am	CBF	1.43
"	"	360	47	47	"	2 956	8/23 am, 8/24 am	"	1.82
5-10-3212	Old Shanty Bk.	124 (n)	68	68	"	2 646	8/23 pm	"	1.30
5-10-2913	Summit Depot	323	8	8	"	337	8/23 am	"	.37
5-10-3211	Kedgwick Forks	375	7	7	"	276	8/23 pm	"	.20
5-10-3014	Wild Goose Br.	359	28	28	"	1 471	8/24 am	"	.98
5-10-3312	Fogs Bk.	112 (n)	21	21	"	861	8/22 pm	"	.35
"	"	113 (n)	29	38	"	1 407	8/22 pm	"	.50
5-10-3412		*102	17	17	"	643	8/23 pm	"	.35
5-10-3313		*254,255,256	50	50	"	1 890	8/23 pm	"	.77
5-10-3412		*103 (n)	30	30	"	1 135	8/23 pm	"	.68
"		*104 (n)	11	11	"	416	8/23 pm	"	.26
5-10-3210		*288	3	3	"	102	8/23 pm	"	.09
5-10-3412		*105 (n)	10	10	"	378	8/23 pm	"	.21
"		*102 (n)	9	9	"	340	8/24 am	"	.23
"		*101 (n)	46	46	"	1 740	8/24 am, pm	"	.97
5-10-3210		*287	39	39	"	1 460	8/24 am	"	.92
"		*288	4	4	"	139	8/24 am	"	.17
5-10-3112		*262	32	32	"	1 199	8/24 am	"	.72
5-10-3012		*248	6	6	"	226	8/24 am	"	.13
5-10-3410		*296	8	8	"	303	8/24 pm	"	.23

LICENSEE: Restigouche-Tobique (Con't)

Area #	Location	Block #	Original Area (ha)	Treated Area (ha)	Rate of Vision (L/ha)	Volume Delivered (L)	Dates Sprayed month/day/morning or evening	Applicators Spray Time (hrs)	
Region 5 Total			2998	2730	4.36	118 925		TMH(1)	27.31
			779(n)	331	5.01	13 647		CBF	37.38
				54(FPMI)	129 L vision	2 812			64.69
				3115		135 384			
				709 (n)					
Total			3711	3461	4.36	158 254		TMH(1)	28.42
			1135(n)	331	5.01	13 647		CBF	53.08
				54(FPMI)	129 L vision	2 812			81.50
				3846		164 713			
				1069 (n)					

**Parts of these blocks were sprayed twice due to rain showers after 1st application.
** Parts of blocks were sprayed twice due to rain showere after 1st application.
* Retreatment of past years "striped" areas.

APPENDIX VI

Summary of herbicide program for SNB Wood Cooperative

Location	Owner	# ha Treated	Rate of Vision L/ha	Volume Spray Delivered (L)	Date Sprayed month/day, morning/evening	Spray Time hrs.
Lower Ridge	Nature Renewals	61	5.01	2 644	9/20 am	.83
Old Fredericton Rd.	J. Bulmer	18	"	611	9/20 am	.58
Cemetary Rd.	R. V. Colpitts	10	"	466	9/20 am	.25
Creek Road	Nature Renewals	130	"	5 657	9/20 am	2.17
Shepody	G. Russell	5	"	189	9/20 pm	.57
Harvey	H. Tingley	14	"	530	9/20 pm	
New Ireland	H. Tingley	10	"	416	9/20 pm	.22
Collier Mtn.	L. Colpitts	15	"	598	9/20 pm	.37
Salmon Creek Rd.	G. Northrup	22	"	1 248	9/20 pm	1.00
Shannon	McCrea Farms	33	"	1 664	9/20 pm	.63
Shannon	G. Kelly	22	"	1 438	9/20 pm	.83
TOTAL		340	5.01	15 511		7.45